

AMCRYS

Техническое описание (eng.)

Электроника

Stationary

По вопросам продаж и поддержки обращайтесь:

Архангельск (8182)63-90-72	Иваново (4932)77-34-06	Магнитогорск (3519)55-03-13	Пермь (342)205-81-47	Сургут (3462)77-98-35
Астана (7172)727-132	Ижевск (3412)26-03-58	Москва (495)268-04-70	Ростов-на-Дону (863)308-18-15	Тверь (4822)63-31-35
Астрахань (8512)99-46-04	Казань (843)206-01-48	Мурманск (8152)59-64-93	Рязань (4912)46-61-64	Томск (3822)98-41-53
Барнаул (3852)73-04-60	Калининград (4012)72-03-81	Набережные Челны (8552)20-53-41	Самара (846)206-03-16	Тула (4872)74-02-29
Белгород (4722)40-23-64	Калуга (4842)92-23-67	Нижний Новгород (831)429-08-12	Санкт-Петербург (812)309-46-40	Тюмень (3452)66-21-18
Брянск (4832)59-03-52	Кемерово (3842)65-04-62	Новокузнецк (3843)20-46-81	Саратов (845)249-38-78	Ульяновск (8422)24-23-59
Владивосток (423)249-28-31	Киров (8332)68-02-04	Новосибирск (383)227-86-73	Севастополь (8692)22-31-93	Уфа (347)229-48-12
Волгоград (844)278-03-48	Краснодар (861)203-40-90	Омск (3812)21-46-40	Симферополь (3652)67-13-56	Хабаровск (4212)92-98-04
Вологда (8172)26-41-59	Красноярск (391)204-63-61	Орел (4862)44-53-42	Смоленск (4812)29-41-54	Челябинск (351)202-03-61
Воронеж (473)204-51-73	Курск (4712)77-13-04	Оренбург (3532)37-68-04	Сочи (862)225-72-31	Череповец (8202)49-02-64
Екатеринбург (343)384-55-89	Липецк (4742)52-20-81	Пенза (8412)22-31-16	Ставрополь (8652)20-65-13	Ярославль (4852)69-52-93

www.amcrys.nt-rt.ru || asy@nt-rt.ru

Stationary

If customer wants to have best possible performance equipment with fully automated measurements we are offering entire line of standalone electronic modules, which can be assembled per desire configuration to accommodate the needs. This line contains PMT specific voltage dividers, preamplifiers, shaping amplifiers, computer controllable HV power supplies and multichannel analyzers with up to 65K channels.

HV power supply modules

Depending on required output current we can offer two types of HV supply modules – SHV-102 (2.5 mA) and SHV-103 (30 mA).

Each series includes devices with the following specifications:

- positive or negative output voltage.
- power supply ~110/220V or 12V/24V (for SHV-102/ SHV-103)
- controller interface – USB, RS232 or Ethernet

All the devices have output voltage and current monitoring which ensures proper operation of detector and on-line malfunction diagnostics. All the controls and monitoring are carried out from spectroscopic software via digital interfaces. All the devices have protection against flashover and short circuit to ground. They can also be equipped with the configurable high voltage blocking input.

Multichannel Analyzers (Stationary)

SMA-xx can be connected directly to PMT without any additional equipment. It allows to collect spectrum with up to 65536 channels (selectable range starting with 512 channels) and can function in raw mode (a list of events with amplitudes of the pulses and their arrival times). A number of additional inputs and outputs, such as acquisition/HV inhibit, GATE, general purpose I/O, make it an optimal choice for laboratory use, probe analysis and etc.

Dual window configuration with energy position analysis available also.

Part number	Number of channel	Number of MCA inputs	Coinc./ anticoinc. scheme	Oscilloscope	Raw mode	Portable	Power supply
SMA-102-X	512÷4096	1	-	-	+	+	+12V
SMA-103-X	512÷65536	2	+	+	+	-	~110/220V

X in part number can be U (USB), S (RS232) or E (Ethernet) Please, contact us for detailed information concerning product lines and characteristics of our multichannel analyzers.

Part number	Output voltage	Output current	Polarity	Input voltage	Control/ monitoring	Dimensions
SHV-102-PS12	0.1-2.0 kV	2.5 mA	+	+12V	RS232	(1)
SHV-102-PU12	0.1-2.0 kV	2.5 mA	+	+12V	USB	(1)
SHV-102-PE12	0.1-2.0 kV	2.5 mA	+	+12V	Ethernet	(1)
SHV-102-MS12	0.1-2.0 kV	2.5 mA	-	+12V	RS232	(1)
SHV-102-MU12	0.1-2.0 kV	2.5 mA	-	+12V	USB	(1)
SHV-102-ME12	0.1-2.0 kV	2.5 mA	-	+12V	Ethernet	(1)
SHV-102-PS220	0.1-2.0 kV	2.5 mA	+	~110/220V	RS232	(2)
SHV-102-PU220	0.1-2.0 kV	2.5 mA	+	~110/220V	USB	(2)
SHV-102-PE220	0.1-2.0 kV	2.5 mA	+	~110/220V	Ethernet	(2)
SHV-102-MS220	0.1-2.0 kV	2.5 mA	-	~110/220V	RS232	(2)
SHV-102-MU220	0.1-2.0 kV	2.5 mA	-	~110/220V	USB	(2)
SHV-102-ME220	0.1-2.0 kV	2.5 mA	-	~110/220V	Ethernet	(2)
SHV-103-PS12	0.1-2.0 kV	30 mA	+	+24V	RS232	(3)
SHV-103-PU12	0.1-2.0 kV	30 mA	+	+24V	USB	(3)
SHV-103-PE12	0.1-2.0 kV	30 mA	+	+24V	Ethernet	(3)
SHV-103-MS12	0.1-2.0 kV	30 mA	-	+24V	RS232	(3)
SHV-103-MU12	0.1-2.0 kV	30 mA	-	+24V	USB	(3)
SHV-103-ME12	0.1-2.0 kV	30 mA	-	+24V	Ethernet	(3)
SHV-103-PS220	0.1-2.0 kV	30 mA	+	~110/220V	RS232	(4)
SHV-103-PU220	0.1-2.0 kV	30 mA	+	~110/220V	USB	(4)
SHV-103-PE220	0.1-2.0 kV	30 mA	+	~110/220V	Ethernet	(4)
SHV-103-MS220	0.1-2.0 kV	30 mA	-	~110/220V	RS232	(4)
SHV-103-MU220	0.1-2.0 kV	30 mA	-	~110/220V	USB	(4)
SHV-103-ME220	0.1-2.0 kV	30 mA	-	~110/220V	Ethernet	(4)

Charge sensitive amplifiers

There are three types of detachable amplifiers produced by Amcryst (ScintiTech, Inc): Voltage preamplifiers, Charge sensitive amplifiers and Shaping amplifiers. The most appropriate for laboratory use are amplifiers SCI-104, SCI-105 series. Their main features are:

- digitally controlled gain (from 0.1 to 5 V/pC).
- low noise (6×10^{-5} pC rms typ.).
- output designed for twisted pair loading (SCI-104) or for coaxial cable (SCI-105).
- single power supply +12V

However, if you are using old-fashionable MCA, you might need a shaping amplifier between PMT and MCA. Amcryst offers ESX-102 series of shaping amplifiers with fixed response time.

Part number	Gain	Loading	Response time	Power supply	Dimensions
quad charge sensitive amplifiers with fixed gain					
SCI-102-N1-4	(0.1÷1.2)V/pC	Twisted pair	For NaI(Tl)	±(7÷12)V	160×50×25mm
SCI-102-C1-4	(0.1÷1.2)V/pC	Twisted pair	For NaI(Tl)	±(7÷12)V	160×50×25mm
SCI-102-B1-4	(0.1÷1.2)V/pC	Twisted pair	For NaI(Tl)	±(7÷12)V	160×50×25mm
dual charge sensitive amplifiers with fixed gain					
SCI-103-N1-2	(0.1÷1.2)V/pC	Twisted pair	For NaI(Tl)	±(7÷12)V	120×40×25mm
SCI-103-N1-2	(0.1÷1.2)V/pC	Twisted pair	For NaI(Tl)	±(7÷12)V	120×40×25mm
SCI-103-N1-2	(0.1÷1.2)V/pC	Twisted pair	For NaI(Tl)	±(7÷12)V	120×40×25mm
charge sensitive amplifiers with variable gain					
SCI-104-NV	(0.1÷5)V/pC	Twisted pair	For NaI(Tl)	+12V	80×65×25mm
SCI-104-CV	(0.1÷5)V/pC	Twisted pair	For NaI(Tl)	+12V	80×65×25mm
SCI-104-BV	(0.1÷5)V/pC	Twisted pair	For NaI(Tl)	+12V	80×65×25mm
SCI-105-NV	(0.1÷5)V/pC	50 Ohm coax	For NaI(Tl)	+12V	80×65×25mm
SCI-105-CV	(0.1÷5)V/pC	50 Ohm coax	For CsI(Tl)	+12V	80×65×25mm
SCI-105-BV	(0.1÷5)V/pC	50 Ohm coax	For BGO	+12V	80×65×25mm

(*) Module has additional amplification channels with gain 5...20 for separate processing of low-energy part of the spectra.

По вопросам продаж и поддержки обращайтесь:

Архангельск (8182)63-90-72	Иваново (4932)77-34-06	Магнитогорск (3519)55-03-13	Пермь (342)205-81-47	Сургут (3462)77-98-35
Астана (7172)727-132	Ижевск (3412)26-03-58	Москва (495)268-04-70	Ростов-на-Дону (863)308-18-15	Тверь (4822)63-31-35
Астрахань (8512)99-46-04	Казань (843)206-01-48	Мурманск (8152)59-64-93	Рязань (4912)46-61-64	Томск (3822)98-41-53
Барнаул (3852)73-04-60	Калининград (4012)72-03-81	Набережные Челны (8552)20-53-41	Самара (846)206-03-16	Тула (4872)74-02-29
Белгород (4722)40-23-64	Калуга (4842)92-23-67	Нижний Новгород (831)429-08-12	Санкт-Петербург (812)309-46-40	Тюмень (3452)66-21-18
Брянск (4832)59-03-52	Кемерово (3842)65-04-62	Новокузнецк (3843)20-46-81	Саратов (845)249-38-78	Ульяновск (8422)24-23-59
Владивосток (423)249-28-31	Киров (8332)68-02-04	Новосибирск (383)227-86-73	Севастополь (8692)22-31-93	Уфа (347)229-48-12
Волгоград (844)278-03-48	Краснодар (861)203-40-90	Омск (3812)21-46-40	Симферополь (3652)67-13-56	Хабаровск (4212)92-98-04
Вологда (8172)26-41-59	Красноярск (391)204-63-61	Орел (4862)44-53-42	Смоленск (4812)29-41-54	Челябинск (351)202-03-61
Воронеж (473)204-51-73	Курск (4712)77-13-04	Оренбург (3532)37-68-04	Сочи (862)225-72-31	Череповец (8202)49-02-64
Екатеринбург (343)384-55-89	Липецк (4742)52-20-81	Пенза (8412)22-31-16	Ставрополь (8652)20-65-13	Ярославль (4852)69-52-93